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 AUTH. NAME: HUNTER, R.S. AUTHOR AFFILIATION: Indiana & Michigan Electric Co.
 RECIP. NAME: DENTON, H.R. RECIPIENT AFFILIATION: Office of Nuclear Reactor Regulation, Director

SUBJECT: Updates 810112 info re utils' R&D program re hydrogen control measures for ice condenser containments. Interim distributed ignition sys will be manually actuated from auxiliary bldg. Agrees to 810312 technical meeting.

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INDIANA & MICHIGAN ELECTRIC COMPANY

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NEW YORK, N. Y. 10004

February 20, 1981
AEP:NRC:00518

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
Post-Accident Hydrogen Control

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Denton:

As you know, we have joined the Tennessee Valley Authority and Duke Power Company in a research and development program to investigate hydrogen control measures for ice condenser containments. By letter dated January 12, 1981, AEP:NRC:00500, Indiana & Michigan Electric Company (I&MECo) submitted to the Commission the first in a series of quarterly reports describing our efforts regarding hydrogen control during hypothetical degraded core cooling events.

Various potential hydrogen control methods are being studied, including the use of an Interim Distributed Ignition System (IDIS). In our AEP:NRC:00500 submittal we stated that we would install the in-containment portion of the IDIS during the 1981 refueling outages for the Cook Units, if required by the NRC. Having reviewed the NRC SER for Sequoyah on the IDIS as well as other information available concerning the IDIS mitigation concept, we are proceeding to install the in-containment portion of an IDIS during the 1981 refueling outages. Materials are being ordered with scheduled delivery dates in accordance with our expected refueling outages.

The Cook Plant IDIS will be designed in accordance with the criteria set forth in Section 6.1 of the enclosure to our AEP:NRC:00500 submittal. In essence, the IDIS will be a two-train, seismically supported system consisting of thirty-four igniter assemblies per train. The IDIS will be a manually actuated system controllable from the Auxiliary Building. IDIS operating procedures and actuation criteria are presently under development.

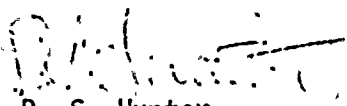
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Members of your staff have requested that a technical meeting be held in Bethesda, Maryland to discuss hydrogen control measures for the Cook Plant. We would be ready to meet with your staff on March 12, 1981.

Very truly yours,


R. S. Hunter
Vice President

cc: John E. Dolan
G. Charnoff
R. C. Callen
R. W. Jurgensen
D. V. Shaller - Bridgman
Region III Resident Site Inspector